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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/625,287	07/23/2003	Jung Kook Park	CU-3301 WWP 7895	
26530 LADAS & PAF	7590 09/22/200 RRY LLP	EXAMINER		
	ICHIGAN AVENUE	XIAO, KE		
SUITE 1600 CHICAGO, IL	60604	ART UNIT	PAPER NUMBER	
			2629	
			MAIL DATE	DELIVERY MODE
			09/22/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/625,28	7	PARK ET AL.				
		Examiner		Art Unit				
		Ke Xiao		2629				
Period fo	The MAILING DATE of this communicati or Reply	on appears on the	cover sheet with the d	correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAILINGS of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical operiod for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the dipatent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evi- tion. period will apply and w y statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tir II expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this of the (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed or	20 May 2009						
-	Responsive to communication(s) filed on <u>20 May 2009</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
<u>ا</u>	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-10</u> is/are rejected.							
-	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction	and/or election re	equirement.					
	ion Papers							
	• The specification is objected to by the Ex	aminer						
,			Objected to by the	Examiner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	under 35 U.S.C. § 119							
	-	oroign priority up	dor 35119 C & 110/a	\ (d\ or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:							
a)		uments have hee	n received					
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			🗖 .					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Other:								

### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

**Claim 2** is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding **Claim 2**, the claim recites the limitation "wherein the active address interval is substantially equivalent to being driven at 85 Hz when a refresh rate is 60 Hz". However there is no support for such a limitation in the detailed specification and no explanation of how the device would operate under such a limitation. The well known definition of frequency in the art is how many times a full period of a signal is repeated during a fixed time period, usually one second. And according to the detailed specification the refresh rate is 60 Hz which is controlled by the V\_sync which has a full period of 16.7ms (Fig. 6), and the active address interval is driven at 60 Hz as well which is controlled by the CPV which has a full period of 16.7ms (11.2ms + 5.5 ms) the same as the V\_sync (Fig. 6). Further according to the detailed specification the refresh

rate as well as the active address interval *must* be synced with one another in order for the display to be operable.

## Allowable Subject Matter

Claims 1 and 3-10 are allowed.

Regarding independent **Claim 1**, prior art (Nose, Fig. 13) teaches all limitations of the claim except a current boosting section for increasing current amount supplied to the gate bus lines during the vertical blanking period interval in response to a pulse width modulation signal. It is noted that prior art does show a current boosting section responsive to a pulse width modulation signal. However said current boosting section is not used to supply gate bus lines and is not operational during a vertical blanking period as claimed.

# Response to Arguments

Applicant's arguments filed May 20<sup>th</sup> 2009, have been fully considered but they are not persuasive.

First the examiner would like to bring to the attention of the applicant, that in the amendment, filed on May 20<sup>th</sup>, 2009 Claim 2 was reverted back to a previous state, and no amendments were made to it that were not previously presented to the examiner. However the arguments section states that claim 2 is both cancelled and amended to further clarify the claim language. Since the examiner is not sure exactly

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which set of arguments to follow the examiner used the copy of the claims filed with the amendment as the basis for above the rejection. Therefore since claim 2 has *not* been cancelled as shown in the filed claims *and* has *not* been amended as stated by the arguments the rejection is maintained.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571)272-7776. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sumati Lefkowitz/ Supervisory Patent Examiner, Art Unit 2629

/Ke Xiao/ Examiner, Art Unit 2629